

Claims

- 5           1.     A tissue adhesive comprising a cyanoacrylate in combination with an angiogenic factor
2.     A tissue adhesive according to claim 1 wherein the angiogenic factor is butyric acid or a derivative or precursor thereof
- 10           3.     A tissue adhesive according to claim 2 wherein the angiogenic factor is a butyric acid salt
4.     A tissue adhesive according to claim 3 wherein the angiogenic factor is a sodium, potassium, calcium, ammonium or lithium butyric acid salt
- 15           5.     A tissue adhesive according to claim 2 wherein the butyric acid, derivative or precursor thereof is present as a polymer containing residues of butyric acid or hydroxybutyric acid
- 20           6.     A tissue adhesive according to claims 1 or 2 wherein the angiogenic factor is  $\alpha$ -monobutylin,  $\alpha$ -dibutylin,  $\beta$ -dibutylin or tributyrin
- 25           7.     A tissue adhesive according to claims 1 or 2 wherein the angiogenic factor is hydroxybutyrate
- 30           8.     A tissue adhesive according to claims 1 to 7 wherein the cyanoacrylate is selected from the following group: alkyl 2-cyanoacrylate, alkenyl 2-cyanoacrylate, alkoxyalkyl 2-cyanoacrylate, or carbalkoxyalkyl 2-cyanoacrylate

9. A tissue adhesive according to claim 8 wherein the alkyl group of said cyanoacrylates has 1 to 16 carbon atoms
- 5 10. A tissue adhesive according to claims 1 to 7 wherein the cyanoacrylate is selected from the following group: methyl 2-cyanoacrylate, ethyl 2-cyanoacrylate, n-propyl 2-cyanoacrylate, iso-propyl 2-cyanoacrylate, n-butyl 2-cyanoacrylate, iso-butyl 2-cyanoacrylate, hexyl 2-cyanoacrylate, n-octyl 2-cyanoacrylate, 2-octyl 2-cyanoacrylate, 2-methoxyethyl 2-cyanoacrylate, 2-ethoxyethyl 2-cyanoacrylate and 2-propoxyethyl 2-cyanoacrylate
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- 15 11. A tissue adhesive according to claims 1 to 10 that has an adhesive strength of at least 0.05 MPa
12. A tissue adhesive according to claims 1 to 10 that has an adhesive strength of between 0.05 and 0.8 MPa
- 20 13. A tissue adhesive according to claims 1 to 12 that releases at least 1ng/ml adhesive of the angiogenic factor
14. A tissue adhesive according to claims 1 to 12 that releases at least 10ng of the angiogenic factor
- 25 15. A tissue adhesive according to claims 1 to 12 that releases less than 10µg of the angiogenic factor
- 30 16. A tissue adhesive according to claims 1 to 12 that releases less than 1µg of the angiogenic factor

17. A tissue adhesive according to claims 1 to 16 that contains at least 5% w/w of angiogenic factor

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